

DOCKET NO.: M0925.70137US00

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Swager, et al.
Serial No.: 10/621,041
Confirmation No.: 8897
Filed: July 15, 2003
For: EMISSIVE, HIGH CHARGE TRANSPORT POLYMERS

Examiner: Irina Sopjia Zemel
Art Unit: 1711

CERTIFICATE OF MAILING UNDER 37 C.F.R. §1.8(a)

The undersigned hereby certifies that this document is being placed in the United States mail with first-class postage attached, addressed to MAIL STOP AMENDMENT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the 19 day of November, 2004.

Signature

MAIL STOP AMENDMENT

Commissioner For Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Transmitted herewith are the following documents:

- Information Disclosure Statement
- PTO Form 1449 with cited references
- Return Receipt Postcard

If the enclosed papers are considered incomplete, the Mail Room and/or the Application Branch is respectfully requested to contact the undersigned at (617) 646-8000, Boston, Massachusetts.

A check is not enclosed. If a fee is required, the Commissioner is hereby authorized to charge Deposit Account No. 23/2825. A duplicate of this sheet is enclosed.

Respectfully submitted,

By:

Timothy J. Oyer, Ph.D., Reg. No. 36,628
Tani Chen, Sc.D., Reg No. 52,728
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Docket No.: M0925.70137US00

Date: November 19, 2004

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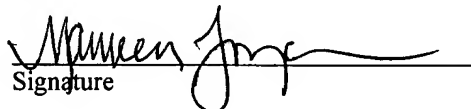
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Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

**STATEMENT FILED PURSUANT TO THE DUTY OF
DISCLOSURE UNDER 37 CFR §§1.56, 1.97 AND 1.98**

Sir:

Pursuant to the duty of disclosure under 37 C.F.R. §§1.56, 1.97 and 1.98, the Applicants request consideration of this Information Disclosure Statement.

PART I: Compliance with 37 C.F.R. §1.97

This Information Disclosure Statement has been filed before the mailing date of a first Office Action on the merits in the above-identified case. No fee or certification is required.

PART II: Information Cited

The Applicants hereby make of record in the above-identified application the information listed on the attached form PTO-1449 (modified). The order of presentation of the references should not be construed as an indication of the importance of the references.

PART III: Explanation of Non-English Language References and Remarks Concerning Other Information Cited

The following is a concise explanation of the relevance of each non-English language reference listed on the attached form PTO-1449 (modified):

DE 19744792 is generally related to triptycene derivatives and their use for opto-electronic applications, in particular as electrical luminescence materials. Applicants do not have possession of a translation of this reference.

DE 19806037 is generally related to triptycene polymers and copolymers. Applicants do not have possession of a translation of this reference.

JP 06-322078 is generally related to linear poly(phenylene-ethylene-biphenylene-ethylene) polymers. A partial translation of this reference is provided. This translation is not the Applicants' translation. Applicants do not concede to the accuracy of the partial translation, but are not aware of any inaccuracies.

PART IV: Remarks

Documents cited anywhere in the Information Disclosure Statement are enclosed unless otherwise indicated. It is respectfully requested that:

1. The Examiner consider completely the cited information, along with any other information, in reaching a determination concerning the patentability of the present claims;
2. The enclosed form PTO-1449 be signed by the Examiner to evidence that the cited information has been fully considered by the Patent and Trademark Office during the examination of this application;
3. The citations for the information be printed on any patent which issues from this application.

By submitting this Information Disclosure Statement, the Applicants make no representation that a search has been performed, of the extent of any search performed, or that more relevant information does not exist.

By submitting this Information Disclosure Statement, the Applicants make no representation that the information cited in the Statement is, or is considered to be, material to patentability as defined in 37 C.F.R. §1.56(b).

By submitting this Information Disclosure Statement, the Applicants make no representation that the information cited in the Statement is, or is considered to be, in fact, prior art as defined by 35 U.S.C. §102.

Notwithstanding any statements by the Applicants, the Examiner is urged to form his own conclusion regarding the relevance of the cited information.

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An early and favorable action is hereby requested.

Respectfully submitted,

By: 

Timothy J. Oyer/Ph.D., Reg. No. 36,628
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				GROUP ART UNIT: 1711	EXAMINER: Irina Sopjia Zemel
Sheet	1	of	5		

U.S. PATENT DOCUMENTS

Examiner's Initials	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication or of issue of Cited Document MM-DD-YYYY
		Number	Kind Code		
	A1	4,356,429		Tang	10-26-1982
	A2	4,687,732		Ward et al.	08-18-1987
	A3	4,927,768		Coughlin et al.	05-22-1990
	A4	4,946,890		Meador	08-07-1990
	A5	4,992,302		Lindmayer	02-12-1991
	A6	5,155,149		Atwater et al.	10-13-1992
	A7	5,194,393		Hugl et al.	03-16-1993
	A8	5,236,808		Smothers	08-17-1993
	A9	5,244,813		Walt et al.	09-14-1993
	A10	5,254,633		Han et al.	10-19-1993
	A11	5,364,797		Olson et al.	11-15-1994
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	A13	5,451,683		Barrett et al.	09-19-1995
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	A15	5,512,490		Walt et al.	04-30-1996
	A16	5,532,129		Heller	07-02-1996
	A17	5,540,999		Yamamoto et al.	07-30-1996
	A18	5,546,889		Wakita et al.	08-20-1996
	A19	5,554,747		Sharma et al.	09-10-1996
	A20	5,556,524		Albers	09-17-1996
	A21	5,563,056		Swan et al.	10-08-1996
	A22	5,565,322		Heller	10-15-1996
	A23	5,580,527		Bell et al.	12-03-1996
	A24	5,585,646		Kossovsky et al.	12-17-1996
	A25	5,591,787		Schlennert et al.	01-07-1997
	A26	5,597,890		Jenekhe	01-28-1997
	A27	5,607,864		Ricchiero et al.	03-04-1997
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	A29	5,700,696		Chandross et al.	12-23-1997
	A30	5,705,348		Meade et al.	01-06-1998
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FOREIGN PATENT DOCUMENTS

Examiner's Initials	Cite No.	Foreign Patent Document			Name of Patentee or Applicant of Cited Document (not necessary)	Date of Publication of Cited Document MM-DD-YYYY	Translation (Y/N)
		Office/ Country	Number	Kind Code			
	B1	DE	19744792	A1	Hoechst AG	04-15-1999	
	B2	DE	19806037	A1	Aventis Corp.	08-19-1999	
	B3	EP	0442123	A1	Neste Oy	08-21-1991	
	B4	EP	0933655	A1	ETHZ Institut	08-04-1999	
	B5	EP	1011154	A1	Sony Corp.	06-21-2000	
	B6	JP	06-322078	A1	Yamamoto Ryuichi	11-22-1999	
	B7	WO	89/00593	A1	Memtech Ltd.	01-26-1989	
	B8	WO	95/16681	A1	Trustees of University of Pennsylvania	06-22-1995	
	B9	WO	99/57222	A1	MIT	11-11-1999	
	B10	WO	01/57140	A1	MIT	08-09-2001	
	B11	WO	02/16463	A2	MIT	02-28-2002	
	B12	WO	03/048226	A2	Nomadics, Inc.	06-12-2003	
	B13	WO	04/007634	A2	MIT	01-22-2004	
	B14	WO	04/057014	A2	Nomadics, Inc.	07-08-2004	

OTHER ART — NON PATENT LITERATURE DOCUMENTS

Examiner's Initials	Cite No	Include name of the author (in CAPITAL LETTERS) title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, relevant page(s), volume-issue number(s), publisher, city and/or country where published.	Translation (Y/N)	
	C1	BRABEC, C., et al. "Plastic Solar Cells," <i>Adv. Funct. Mater.</i> , 11 (1), (2001), pp. 15-26		
	C2	CHEN, L., et al., "Highly sensitive biological and chemical sensors based on reversible fluorescence quenching in a conjugated polymer," <i>PNAS</i> , 96 (22), (1999), pp: 12287-12292		
	C3	CHEN, L., et al., "Tuning the Properties of Conjugated Polyelectrolytes through Surfactant Complexation," <i>Journal of the American Chemical Society</i> , 122 , pp. 9302-9303		
	C4	COTTS, P.M., et al., "Equilibrium Flexibility of a Rigid Linear Conjugated Polymer," <i>Macromolecules</i> , 29 (1996), pp. 7323-7328		
	C5	DEANS, R., et al., "A Poly(<i>p</i> -phenyleneethynylene) with a Highly Emissive Aggregated Phase", <i>Journal of the American Chemical Society</i> , 122 (2000), pp. 8565-8566		
	C6	FIESEL, R., et al., "Aggregation-induced CD effects in chiral poly(2,5-dialkoxy-1,4-phenylene)s," <i>Acta Polym.</i> , 49 , (1998), pp. 445-449		
	C7	FIESEL, R., et al., "A chiral poly(<i>para</i> -phenyleneethynylene) (PPE) derivative," <i>Macromol. Rapid Commun.</i> , 19 , (1998), pp. 427-431		
	C8	FIESEL, R., et al., "On the Solid State Aggregation of Chiral Substituted Poly(<i>para</i> -phenylene)s (PPPs)," <i>Synthetic Metals</i> , 102 , (1999), pp. 1457-1458		
	C9	FU, D., et al., "Alternating Poly(PyridylVinylenePhenylene Vinylene)s: Synthesis and Solid State Organizations," <i>Tetrahedron</i> , 53 (45), (1997), pp: 15487-15494		
	C10	GAYLORD, B.S., et al., "DNA detection using water-soluble conjugated polymers and peptide nucleic acid probes," <i>PNAS</i> , 99 (17), (2002), pp. 10954-10957		
	C11	GAYLORD, B., et al., "Water-Soluble Conjugated Oligomers: Effect of Chain Length and Aggregation on Photoluminescence-Quenching Efficiencies," <i>J. Am. Soc.</i> , 123 , (2001), pp: 6417-6418		

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	C12	GOLDFINGER, M. et al., "Fused Polycyclic Aromatics via Electrophile-Induced Cyclization Reactions: Application to the Synthesis of Graphite Ribbons", <i>Journal of the American Chemical Society</i> , 116, (1994), pp. 7895-7896	
	C13	HALKYARD, C.E., "Evidence of Aggregate Formation of 2,5-Dialkylpoly (p-phenyleneethynylenes) in Solution and Thin Films," <i>Macromolecules</i> , 31(25), (1998), pp: 8655-8659	
	C14	HARRISON, B.S., et al., "Amplified Fluorescence Quenching in a Poly(p-phenylene)-Based Cationic Polyelectrolyte," <i>J. Am. Chem. Soc.</i> , 122, (2000), pp: 8561-8562	
	C15	HEEGER, P.S., et al., "Making sense of polymer-based biosensors," <i>PNAS</i> , 96(22), (1999), pp: 12219-12221	
	C16	HÖGER S., et al., "Synthesis, Aggregation, and Adsorption Phenomena of Shape-Persistent Macrocycles with Extraannular Polyalkuly Substituents," <i>Journal of the American Chemical Society</i> , 123(24), (2001), pp. 5651-5659	
	C17	JONES, R.M., et al., "Superquenching and Its Applications in J-Aggregated Cyanine Polymers," <i>Langmuir</i> , 17, (2001), pp. 2568-2571	
	C18	KIM, J., et al., "Nanoscale Fibrils and Grids: Aggregated Structures from Rigid-Rod Conjugated Polymers," <i>Macromolecules</i> , 32(5), (1999), pp: 1500-1507	
	C19	KIM, J., et al., "Ion-Specific Aggregation in Conjugated Polymers: Highly Sensitive and Selective Fluorescent Ion Chemosensors," <i>Agnew Chem. Int. Ed.</i> , 39(21), (2000), pp. 3868--3872	
	C20	KIM, J., et al., "Control of conformational and interpolymer effects in conjugated polymers," <i>Nature</i> , 411, (2001), pp.1030-1034	
	C21	KIM, J., et al., "Directing Energy Transfer within Conjugated Polymer Thin Films," <i>Journal of the American Chemical Society</i> , 123(46), (2001), pp. 11488-11489	
	C22	KIM, J., et al., "Structural Control in Thin Layers of Poly(p-phenyleneethynylene)s: Photophysical Studies of Langmuir and Langmuir-Blodgett Films," <i>Journal of the American Chemical Society</i> , 124 (26), (2002), p. 7710	
	C23	KIM, Y., et al., "Ultrafast Energy-Transfer Dynamics between Block Copolymer and π -Conjugated Polymer Chains in Blended Polymeric Systems," <i>Chemistry of Materials</i> , 13(8), 266	
	C24	KÖHLER, B., et al., "Novel Chiral Macrocycles Containing Two Electronically Interacting Arylene Chromophores," <i>Chem. Eur. J.</i> , 7(14), (2001), pp. 3000-3004	
	C25	KRAFT, A., et al., "Electroluminescent Conjugated Polymers – Seeing Polymers in a New Light," <i>Agnew. Chem. Int. Ed.</i> , 37, (1998), pp. 402-428	
	C26	KUSHON, S.A., et al., "Detection of DNA Hybridization via Fluorescent Polymer Superquenching," <i>The ACS Journal of Surfaces and Colloids</i> , 18(20), (2002), pp. 7245-7249	
	C27	LANGVELD, B.M.W., et al., "Circular Dichroism and Circular Polarization of Photoluminescence of Highly Ordered Poly {3,4-di[(S)-2-methylbutoxy]thiophene}," <i>Journal of the American Chemical Society</i> , 118, (1996), pp. 4908-4909	
	C28	LEVITSKY, I.A., et al., "Energy Migration in a Poly(phenylene ethynylene): Determination of Interpolymer Transport in Anisotropic Langmuir-Blodgett Films," <i>J. Am. Chem. Soc.</i> , 121(7), (1999), pp: 1466-1472	
	C29	LEVITSKY, I.A., et al., "Mass and Energy Transport in Conjugated Polymer Langmuir-Blodgett Films; Conductivity, Fluorescence, and UV-Vis Studies," <i>Macromolecules</i> , 34, (2001), pp. 2315-2319	

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OTHER ART — NON PATENT LITERATURE DOCUMENTS

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	C30	LI, M., et al., "Novel Surfactant-Free Stable Colloidal Nanoparticles Made of Randomly Carboxylated Polystyrene Ionomers," <i>Macromolecules</i> , 30 , (1997), pp: 2201-2203	
	C31	LUO, L., et al., "Thermodynamic Stabilization Mechanism of Block Copolymer Vesicles," <i>Journal of the American Chemical Society</i> , 123 (5), (2001), pp. 1012-1013	
	C32	MCQUADE, D.T., et al., "Conjugated Polymer-Based Chemical Sensors," <i>Chem. Rev.</i> , 100 ,(2000), pp. 2537-2574	
	C33	MCQUADE, D.T., et al., "Two-Dimensional Conjugated Polymer Assemblies: Interchain Spacing for Control of Photophysics," <i>Journal of the American Chemical Society</i> , 122 , (2000), pp. 5885-5886	
	C34	MIAO, Y., et. al., "Fluorescence Sensory Polymers Containing Rigid Non-planar Aromatic Scaffolds," <i>Poly. Prep. Div. Poly. Chem ACS</i> , 39 , pp: 1081-1082	
	C35	MITSCHE, U. et al., "The electroluminescence of organic materials," <i>J. Mater. Chem.</i> , 10 , (2000), pp. 1471-1507	
	C36	MOON, J.H., et al., "Capture and detection of a quencher labeled oligonucleotide by poly(phenylene ethynylene) particles," <i>Chem. Commun.</i> , 1 , (2003), pp. 104-105	
	C37	NORVEZ, S., et al., "Epitaxygens: mesomorphic properties of triptycene derivatives," <i>Liquid Chemicals</i> , 14 (5), (1993), pp. 1389-1395	
	C38	ODA, M., et al., "Circularly Polarized Electroluminescence from Liquid-Crystalline Chiral Polyfluorenes," <i>Advanced Materials</i> , 12 (5), (2000), pp. 362-365	
	C39	ODA, M., et al., "Chiroptical properties of chiral-substituted polyfluorenes," <i>Synthetic Metals</i> , 111-112 , (2000), pp. 575-577	
	C40	PENG, K., et al., "Efficient Light Harvesting by Sequential Energy Transfer across Aggregates in Polymers of Finite Conjugational Segments with Short Aliphatic Linkages," <i>J. Am. Chem. Soc.</i> , 123 , (2001), pp. 11388-11397	
	C41	PEETERS, E., et al., "Circularly Polarized Electroluminescence from a Polymer Light-Emitting Diode," <i>Journal of the American Chemical Society</i> , 119 , (1997), pp. 9909-9910	
	C42	PLACE, I., et al., "Stabilization of the Aggregation of Cyanine Dyes at the Molecular and Nanoscopic Level," <i>Langmuir</i> , 16 , (2000), pp: 9042-9048	
	C43	PSCHIRER, N.G., et al., "Poly(fluorenyleneethynylene)s by Alkyne Metathesis: Optical Properties and Aggregation Behavior," <i>Macromolecules</i> , 33 , (2000), pp: 3961-3963	
	C44	SNOW, A.W., et al., "Synthesis and Evaluation of Hexafluorodimethylcarbinol Functionalized Polymers as Microsensor Coatings," <i>J. App. Polymer Science</i> , 43 , (1991), pp: 1659-1671	
	C45	SWAGER, T.M., et al., "Fluorescence Studies of Poly(p-phenyleneethynylene)s: The Effect of Anthracene Substitution," <i>J. Phys. Chem.</i> , 99 , (1995), pp: 4886-1893	
	C46	SWAGER, T.M., "The Molecular Wire Approach to Sensory Signal Amplification," <i>Acct. of Chem. Research</i> , 31 (5), (1998), pp: 201-207	
	C47	TAN, C., et al., "Photophysics, aggregation and amplified quenching of a wter-soluble poly(phenylene ethynylene)," <i>Chem. Commun.</i> , (2002), pp. 446-447	
	C48	VAN HOUTEN, K.A., et al., "Rapid Luminescent Detection of Phosphate Esters in Solution and the Gas Phase Using (dppe)Pt{S2C2(2-pyridyl)(CH2CH2OH)},," <i>J. Am. Chem. Soc.</i> , 120 , (1998), pp: 12359-12360	
	C49	WALTERS, K.A., et al., "Photophysical Consequences of Conformation and Aggregation in Dilute Solutions of π -Conjugated Oligomers," <i>Langmuir</i> , 15 , (1999), pp. 5676-5680	
	C50	WEDER, C., et al., "Efficient Solid-State Photoluminescence in New Poly(2,5-dialkyl-p-phenyleneethynylene)s," <i>Macromolecules</i> , 29 , (1996), pp: 5157-5165	

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	C51	WU, C., et al., "Novel Nanoparticles Formed via Self-Assembly of Poly(ethylene glycol-b-sebacic anhydride) and Their Degradation in Water," <i>Macromolecules</i> , 33 , (2000), pp: 9040-9043		
	C52	YANG, J., et al., "Porous Shape Persistent Fluorescent Polymer Films: An Approach to TNT Sensory Materials," <i>Journal of the American Chemical Society</i> , 120 (21), (1998), pp. 5321-5322		
	C53	YANG, J., et al., "Fluorescent Porous Polymer Films as TNT Chemosensors: Electronic and Structural Effects," <i>J. Am. Chem. Soc.</i> , 120 (46), (1998), pp. 11864-11873		
	C54	YANG, J., et al., "Anomalous crystal packing of iptycene secondary diamides leading to novel chain and channel networks," <i>Tetrahedron Letters</i> , 41 , Issue 41, (2000), pp. 7911-7915		
	C55	ZHANG, G., et al., "Formation of Novel Polymeric Nanoparticles," <i>Acc. Chem. Res.</i> , 34 , (2001), pp: 249-256		
	C56	ZHANG, S., et al., "Fluorescent Detection of Chemical Warfar Agents: Specific Ratiometric Chemosensors,"		
	C57	ZHOU, Q., et al., "Methodology for Enhancing the Sensitivity of Fluorescent Chemosensors: Energy Migration In Conjugated Polymers," <i>Journal of the American Chemical Society</i> , 117 (26). (1995), pp. 7017-7018		
	C58	ZHOU, Q., et al., "Fluorescent Chemosensors Based on Energy Migration in Conjugated Polymers: The Molecular Approach to Increased Sensitivity," <i>J. Am. Chem. Soc.</i> , 117 (50), (1995), pp: 12593-12602		
	C59	International Search Report for PCT/US03/22702 mailed January 29, 2004		

EXAMINE R	DATE CONSIDERED
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#EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

*a copy of this reference is not provided as it was previously cited by or submitted to the office in a prior application, Serial No. _____, filed _____, and relied upon for an earlier filing date under 35 U.S.C. 120 (continuation, continuation-in-part, and divisional applications).

[NOTE - The Office hereby waives the requirement under 37 CFR 1.98 (a)(2)(i) for submitting a copy of each cited U.S. patent and each U.S. patent application publication for all U.S. national patent applications filed after June 30, 2003 and for all international applications that have entered the national stage under 35 USC 371 after June 30, 2003. See 37 CFR 1.491(b). For all patent applications filed on or before June 30, 2003, copies of cited U.S. patents and patent application publications are still required unless an eIDS is filed. Copies of all other patent(s), publication(s), or other information listed must still be provided, even if it was previously submitted to, or cited by, the U.S. Patent Office in an earlier application, unless the earlier application is identified by the IDS and is relied upon for an earlier filing date under 35 U.S.C. §120, and the copy was provided in the earlier application.]